

IN THE CLAIMS:

Claims 25, 30, 43, 84, 85, and 105 are amended herein. No claims are cancelled or added. All pending claims are produced below. In addition, the status of each is also indicated below and appropriately noted as "Original", "Currently Amended", "Canceled", "New", "Withdrawn", "Previously Presented", and "Not Entered" as requested by the Office.

1. to 24. (Cancelled)

25. (Currently amended) A hand-held computing device structured to include a telephone component, comprising:

a case having a front face, the case having within a plane a long axis and a short axis;

a display screen located on the front face;

a speaker located along a top portion of the front face above the display screen;

a microphone below the display screen; and

a non-foldable keyboard located on the front face below the display screen

comprising three rows of keys oriented perpendicular to the long axis of the case, at least nine keys comprising a primary symbol and a secondary symbol, the primary symbols for successive keys in the first row of keys representing the letters "Q", "W", "E", "R", "T", and "Y",

the at least nine keys having secondary symbols "1" to "9" comprising a touch-tone telephone keypad arrangement of keys, the secondary symbols "1", "2", and "3" in the first of the three row rows of keys, the secondary symbols "4", "5", and "6" in a second of the three row rows of keys, and the secondary symbols "7", "8", and "9" in a third of the three rows of keys, each secondary symbol associated with a key including a primary symbol, and comprising an option

key configured to set the non-foldable keyboard in one of a plurality of states, a first state corresponding to a single use of a secondary symbol in the touch-tone telephone keypad arrangement, a second state corresponding to consecutive use of any secondary symbols in the touch-tone telephone keypad arrangement, and a third state corresponding to use of only primary symbols in the touch-tone telephone keypad arrangement, wherein the keys in the touch-tone telephone keypad arrangement have a common visual characteristic, at least one key not in the telephone keypad arrangement lacks the common visual characteristic of the keys in the telephone keypad arrangement, and wherein ~~the~~ in response to execution of the telephone component, the non-foldable keyboard is set to the second state for use of the secondary symbols of the keys in the telephone keypad arrangement.

26. (Previously presented) The device of claim 25 wherein a key having a secondary symbol of “0” is in a fourth row of keys.
27. (Previously presented) The device of claim 25 wherein a row of the keyboard includes a key representing at least one of the “*” symbol and the “#” next to a key of the telephone keypad arrangement.
28. (Previously presented) The device of claim 25 wherein each primary symbol is a separate key.
29. (Previously presented) The device of claim 25 wherein the option key is in one of the three rows of keys.

30. (Currently amended) In a handheld device comprising a data entry component and a wireless telephone component, the device having a long axis and a short axis within a plane, a non-foldable keyboard comprising:

a plurality of keys arranged in a configuration having key rows oriented perpendicularly with respect to the long axis of the device, one of the key rows comprising successive keys representing the letters Q, W, E, R, T, and Y,

wherein the plurality of keys comprises at least nine multi-value keys, each multi-value key associated with at least a primary value and a numeric secondary value, the at least nine multi-value keys having a common visual characteristic and being arranged to form part of the configuration, the at least nine multi-value keys further being arranged in a telephone keypad arrangement, the keys in the configuration comprising at least one key not having the common visual characteristic of the nine multi-value keys, the non-foldable keyboard located below a display screen along the long axis of the handheld device,

wherein the plurality of keys further comprises an option key configured to set the plurality of keys in one of a plurality of states, a first state corresponding to a single use of a numeric secondary value of a multi-value key, a second state corresponding to consecutive use of any numeric secondary ~~values~~ value of [[a]] the multi-value key keys, and a third state corresponding to use of only the primary value of a multi-value key, and

wherein in response to activation of the wireless telephone component, the least nine multi-value keys initially set to the second set and operable as touch-tone keys.

31. (Previously presented) The keyboard of claim 30, wherein the at least nine multi-value keys are arranged in at least three rows, each row comprising at least three multi-value keys.

32. (Previously presented) The keyboard of claim 31, wherein the at least three rows comprise:
a first row comprising multi-value keys associated with numeric values of 1, 2, and 3;
a second row comprising multi-value keys associated with numeric values of 4, 5, and 6; and
a third row comprising multi-value keys associated with numeric values of 7, 8, and 9.

33. (Previously presented) The keyboard of claim 32, further comprising a tenth multi-value key associated with at least a primary value and a numeric secondary value of 0, wherein the tenth multi-value key is arranged in a fourth row.

34. (Previously presented) The keyboard of claim 31, wherein the at least three rows comprise:
a first row comprising multi-value keys associated with at least three primary values selected from the group consisting of Q, W, E, R, T, Y, U, I, O, and P, and further associated with numeric values of 1, 2, and 3;

a second row comprising multi-value keys associated with at least three primary values selected from the group consisting of A, S, D, F, G, H, J, K, L, and “;”, and further associated with numeric values of 4, 5, and 6; and

a third row comprising alphabetic/numeric multi-value keys associated with at least three primary values selected from the group consisting of Z, X, C, V, B, N, M, “,”, and “.”, and further associated with numeric values of 7, 8, and 9.

35. (Previously presented) The keyboard of claim 31, wherein the at least three rows comprise:

a top row comprising multi-value keys associated with numeric values of 1, 2, and 3;

a middle row comprising multi-value keys associated with numeric values of 4, 5, and 6; and

a bottom row comprising multi-value keys associated with numeric values of 7, 8, and 9.

36. (Previously presented) The keyboard of claim 31, wherein the plurality of keys further comprises at least one additional multi-value key associated with at least a primary value and a secondary value, the additional multi-value key being arranged to form part of the configuration, the at least one additional multi-value key further being arranged in a fourth row, so that the at least nine multi-value keys and the at least one additional multi-value keys collectively emulate a telephone keypad arrangement.

37. (Previously presented) The keyboard of claim 36, wherein the at least one additional multi-value key is associated with a numeric value of 0.

38. (Previously presented) The keyboard of claim 31, wherein the plurality of keys further comprises at least three additional multi-value keys, each associated with at least a primary value and a secondary value, the at least three additional multi-value keys being arranged to form part of the configuration, the at least three additional multi-value keys further being arranged in a fourth row, so that the at least nine multi-value keys and the at least three additional multi-value keys collectively emulate a telephone keypad arrangement.

39. (Previously presented) The keyboard of claim 38, wherein the at least three rows comprise:

- a first row comprising multi-value keys associated with numeric values of 1, 2, and 3;
- a second row comprising multi-value keys associated with numeric values of 4, 5, and 6; and
- a third row comprising multi-value keys associated with numeric values of 7, 8, and 9; and

wherein the fourth row comprises multi-value keys associated with secondary values of *, 0 and #.

40. (Previously presented) The keyboard of claim 38, wherein the at least three rows comprise:

- a top row comprising multi-value keys associated with numeric values of 1, 2, and 3;
- a second row, below the top row, comprising multi-value keys associated with numeric values of 4, 5, and 6; and
- a third row, below the second row, comprising multi-value keys associated with numeric values of 7, 8, and 9;

and wherein the fourth row, located below the third row, comprises multi-value keys associated with secondary values of *, 0 and #.

41. (Previously presented) The keyboard of claim 30, wherein the at least nine multi-value keys comprise:

at least one selected from the group consisting of:

- a key associated with a primary value of Y and a numeric value of 1,
- a key associated with a primary value of U and a numeric value of 2, and
- a key associated with a primary value of I and a numeric value of 3;

at least one selected from the group consisting of:

- a key associated with a primary value of H and a numeric value of 4,
- a key associated with a primary value of J and a numeric value of 5, and
- a key associated with a primary value of K and a numeric value of 6; and

at least one selected from the group consisting of:

- a key associated with a primary value of B and a numeric value of 7,
- a key associated with a primary value of N and a numeric value of 8, and
- a key associated with a primary value of M and a numeric value of 9.

42. (Previously presented) The keyboard of claim 41, further comprising a multi-value key associated with at least a numeric value of 0.

43. (Currently amended) In a handheld device structured to include data entry operation and a wireless telephone operation, the device having within a plane a long axis and a short axis, a non-foldable keyboard comprising:

a plurality of keys arranged in a configuration having key rows oriented perpendicularly with respect to the long axis of the device, one of the key rows comprising successive keys representing the letters Q, W, E, R, T, and Y;

wherein the plurality of keys comprises at least nine multi-value keys, each multi-value key associated with at least a primary value and a numeric secondary value, the at least nine multi-value keys having a common visual characteristic, the at least nine multi-value keys having the common visual characteristic arranged in at least three successive rows and three successive columns, the non-foldable keyboard located below a display screen along the long axis of the handheld device,

wherein the plurality of keys further comprises an option key configured to set the at least nine-multi-value keys in one of a plurality of states, a first state corresponding to a single use of a numeric secondary value of the multi-value keys, a second state corresponding to consecutive use of any numeric secondary values of the multi-value keys, and a third state corresponding to use of only primary keys of the multi-value keys, and

wherein in response to operation of the wireless telephone the at least nine multi-value keys ~~initially are initially~~ set to the second state and operable as a touch-tone keys.

44. (Previously presented) The keyboard of claim 43, wherein the plurality of keys further comprises at least one additional multi-value key, associated with at least a primary

value and a secondary value, the at least one multi-value key being arranged in a fourth row.

45. (Previously presented) The keyboard of claim 44, wherein the secondary value of the additional multi-value key is 0.

46. (Previously presented) The keyboard of claim 43, wherein the plurality of keys further comprises at least three additional multi-value keys, each associated with at least a primary value and a secondary value, the at least three multi-value keys being arranged in a fourth row.

47. (Previously presented) The keyboard of claim 46, wherein the secondary values of the at least three additional multi-value keys are *, 0, and #.

48. (Previously presented) The keyboard of claim 43, wherein each primary value comprises an alphabetic value.

49. (Previously presented) The keyboard of claim 43, wherein the plurality of keys arranged in the configuration further comprises at least one multi-value key associated with at least a primary value and a non-alphabetic non-numeric secondary value.

50. (Previously presented) The keyboard of claim 49, wherein the multi-value keys associated with numeric secondary values are visually distinguishable from the at least one multi-value key associated with a non-alphabetic non-numeric secondary value.

51. – 58. (Cancelled)

59. (Previously presented) The keyboard of claim 49, wherein at least a portion of each multi-value key associated with a numeric secondary value is a first color, and at least a portion of each multi-value key associated with a non-alphabetic non-numeric secondary value is a second color different from the first color.

60. – 81. (Cancelled)

82. (Previously presented) The keyboard of claim 49, further comprising:

for at least one multi-value key associated with a numeric secondary value, a label

identifying the secondary value, the label having a first color; and

for at least one multi-value key associated with a non-alphabetic non-numeric

secondary value, a label identifying the secondary value, the label having a

second color different from the first color.

83. (Previously presented) The keyboard of claim 49, wherein at least one non-alphabetic non-numeric secondary value comprises a punctuation mark.

84. (Currently amended) The keyboard of claim 43, wherein the device further comprises a processor, for interpreting user activation of a multi-value key as one of the values of ~~the an~~ activated multi-value key.

85. (Currently amended) The keyboard of claim 43, wherein the device interprets user activation of a multi-value key as one of the values of ~~the an~~ activated multi-value key.

86. (Previously presented) The keyboard of claim 43,

wherein the keyboard is adapted to detect key presses by a user; and

wherein, responsive to the keyboard detecting a key press of a multi-value key, the device interprets the key press as one of the values of the pressed key.

87. (Previously presented) The keyboard of claim 86, further comprising:
a modifier key, for specifying which value of a multi-value key is intended.

88. (Previously presented) The keyboard of claim 87, wherein, responsive to the keyboard detecting a key press of the modifier key, the device interprets a subsequent key press of a multi-value key as the secondary value of the pressed multi-value key.

89. (Previously presented) The keyboard of claim 87, wherein, responsive to the keyboard detecting the modifier key being held in a pressed position while a multi-value key is pressed, the device interprets the key press of the multi-value key as the secondary value of the pressed multi-value key.

90. (Previously presented) The keyboard of claim 87, wherein:
the keyboard has at least two modes, including a first mode in which the device interprets a key press as the primary value of the pressed key, and a second mode in which the device interprets a key press as the secondary value of the pressed key, and
wherein, responsive to the keyboard detecting a key press of the modifier key, the keyboard switches from one of the modes to another of the modes.

91. (Previously presented) The keyboard of claim 43, wherein:
the keyboard has at least two modes, including a first mode in which the device interprets a key press as the primary value of the pressed key, and a second

mode in which the device interprets a key press as the secondary value of the pressed key.

92. (Previously presented) The keyboard of claim 43, further comprising:
a modifier key, for specifying which value of a multi-value key is intended.

93. (Previously presented) The keyboard of claim 43, wherein each key in the plurality of keys arranged in the configuration is associated with an alphabetic value and a secondary value.

94. (Previously presented) The keyboard of claim 43, wherein the handheld device comprises an e-mail device.

95. (Previously presented) The keyboard of claim 43, wherein the handheld device comprises an e-mail device adapted to operate in conjunction with a wireless network.

96. (Previously presented) The keyboard of claim 43, wherein:
for each of at least a subset of the multi-value keys, the keyboard further comprises a label identifying at least the primary value and the numeric secondary value of the multi-value key.

97. (Previously presented) The keyboard of claim 96, wherein each label is printed on the corresponding key.

98. (Previously presented) The keyboard of claim 96, wherein each label is printed adjacent to the corresponding key.

99. (Previously presented) The keyboard of claim 43, wherein the handheld device further comprises a telephone dialing component, for, responsive to user activation of a sequence of keys having numeric secondary values, dialing a telephone number specified by the key sequence.

100. (Previously presented) The keyboard of claim 43, wherein each key in the plurality of keys is tilted at a substantially common angle.

101. (Previously presented) The keyboard of claim 43, wherein each key in the plurality of keys is oval shaped.

102. (Previously presented) The keyboard of claim 43, wherein the handheld device further serves as an e-mail device.

103. (Previously presented) The keyboard of claim 43, wherein the plurality of keys further comprises at least one additional multi-value key, associated with a primary value and a secondary value, the at least one additional multi-value key being arranged in a fourth row.

104. (Previously presented) The keyboard of claim 43, wherein the plurality of keys further comprises at least three additional multi-value keys, each associated with a primary value and a secondary value, the at least three additional multi-value keys being arranged in a fourth row.

105. (Currently amended) In a handheld device structured to include a data entry operation and a wireless telephone operation, the device having within a plane a long axis and a short axis, a non-foldable keyboard comprising:

a plurality of keys arranged in a configuration having key rows oriented perpendicularly with respect to the long axis of the device, one of the key rows comprising successive keys representing the letters Q, W, E, R, T, and Y;

wherein the plurality of keys comprises at least ten multi-value keys, each associated with at least a primary value and a secondary value, the at least ten multi-value keys having a common visual characteristic and being arranged in at least four rows, wherein at least three of the rows each comprise at least three multi-value keys, the keys in the configuration comprising at least one key not having the common visual characteristic of the ten multi-value keys, the non-foldable keyboard located below a display screen along the long axis of the handheld device,

wherein the plurality of keys further comprises an option key configured to set the at least ten multi-value keys in one of a plurality of states, a first state corresponding to a single use of a secondary value of a multi-value key, a second state corresponding to consecutive use of any secondary values value of [[a]] the multi-value key keys, and a third state corresponding to use of only the primary values of a multi-value key, and

wherein in response to operation of the wireless telephone the at least nine multi-value keys initially set to the second state and operable as a touch-tone keys.

106. (Previously presented) The keyboard of claim 105, wherein the plurality of keys arranged in the configuration further comprises at least one multi-value key

associated with at least a primary value and a non-alphabetic non-numeric secondary value.

107. (Previously presented) The keyboard of claim 106, wherein the at least ten multi-value keys are visually distinguishable from the at least one multi-value key associated with a non-alphabetic non-numeric secondary value.

108. – 111. (Cancelled)

112. (Previously presented) The device of claim 25, further comprising:
a display screen located on the front face of the case, positioned above the keyboard,
wherein both the keyboard and the display screen are horizontally centered
about the long axis of the case.

113. (Previously presented) The device of claim 112, wherein the keys in a telephone keypad arrangement form a block that is not horizontally centered about the long axis of the case.

114. (Previously presented) The device of claim 25, further comprising:
a plurality of navigation controls on the front face of the case and positioned
symmetrically about the long axis of the case.

115. (Previously presented) The device of claim 25, wherein the keyboard is usable without unfolding the device.

116. (Previously presented) The device of claim 25, wherein the device is adapted to function as a wireless telephone.

117. (Previously presented) The keyboard of claim 30, wherein the keyboard is horizontally centered about the long axis of the case and is positioned below a display screen located on the front face of the case and also centered about the long axis of the case.

118. (Previously presented) The keyboard of claim 117, wherein the at least nine multi-value keys form a block that is not horizontally centered about the long axis of the case.

119. (Previously presented) The keyboard of claim 30, wherein the keyboard is positioned on a front face of the device that also includes a plurality of navigation controls positioned symmetrically about the long axis of the case.

120. (Previously presented) The keyboard of claim 30, wherein the keyboard is usable without unfolding the device.

121. (Previously presented) The keyboard of claim 43, wherein the keyboard is horizontally centered about the long axis of the device and is positioned below a display screen located on the front face of the device and also centered about the long axis of the device.

122. (Previously presented) The keyboard of claim 121, wherein the at least nine multi-value keys form a block that is not horizontally centered about the long axis of the device.

123. (Previously presented) The keyboard of claim 43, wherein the keyboard is positioned on a front face of the device that also includes a plurality of navigation controls positioned symmetrically about the long axis of the device.

124. (Previously presented) The keyboard of claim 43, wherein the keyboard is usable without unfolding the device.

125. (Previously presented) The keyboard of claim 105, wherein the keyboard is horizontally centered about the long axis of the device and is positioned below a display screen located on the front face of the device and also centered about the long axis of the device.

126. (Previously presented) The keyboard of claim 125, wherein the at least ten multi-value keys form a block that is not horizontally centered about the long axis of the device.

127. (Previously presented) The keyboard of claim 105, wherein the keyboard is positioned on a front face of the device that also includes a plurality of navigation controls positioned symmetrically about the long axis of the device.

128. (Previously presented) The keyboard of claim 105, wherein the keyboard is usable without unfolding the device.

129. – 162. (Cancelled)